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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,570	07/22/2003	Jung-Hoon Kim	P-0560	6556
34610	7590	09/22/2004	EXAMINER	
FLESHNER & KIM, LLP P.O. BOX 221200 CHANTILLY, VA 20153			NGUYEN, HAI L	
			ART UNIT	PAPER NUMBER
			2816	

DATE MAILED: 09/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/623,570

Applicant(s)

KIM, JUNG-HOON

Examiner

Hai L. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 July 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 2-15 and 18-29 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The following claimed limitations: “a multi clock selecting unit configured to receive the clock signals of the respective clock deciding apparatuses and supplying the system clock signal to the respective clock deciding apparatuses” in claim 2; “compare a phase of the system clock signal to phases of the respective delay clock signals; and select and output one the delay clock signals having the smallest phase difference from the system clock signal by referring to the phase comparison result” in claim 12; “selecting one of the delay clock signals having a minimum phase difference from the first clock signal as at least one addition clock; receiving the output clock signals in a selecting unit; and supplying a system clock signal from the selecting unit to respective clock devices that generate the output clock signals” in claim 18; and “comparing a phase of the first clock signal to phases of the delay clock signals; and selecting and outputting one of the delay clock signals having the smallest phase difference from the first clock signal by referring to the phase comparison result” in claim 26; have not been enabled in the specification. The details of

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such functions are not seen in the description of the preferred embodiment. It is not clear as currently defined, how the instant invention can perform the recited functions.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1 and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Taylor et al. (US 6,556,249).

With respect to claims 1 and 17, Taylor et al. discloses in Fig. 3 a circuit, and a method of use thereof, comprising a master clock deciding apparatus (302) configured to output a system clock signal (CLOCK IN); and a slave clock deciding apparatus (1-16) configured to generate a plurality of clock signals by delaying a reference clock signal, and to output a clock signal (CLOCK OUT) selected from the plurality of clock signals having a minimum phase difference from the system clock, wherein the output of the master is inputted into the slave.

With regard to claim 12, the slave is configured to convert the frequency of the reference clock into the frequency used in the system; generate a plurality of delay clock signals by delaying the converted reference clock signal for a predetermined time; compare a phase of the system clock signal to phases of the respective delay clock signals; and select and output one the

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delay clock signals having the smallest phase difference from the system clock signal by referring to the phase comparison result.

5. Claims 1, 16, and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Nguyen (US 6,373,308).

With respect to claims 1 and 17, Nguyen discloses in Fig. 3 a circuit, and a method of use thereof, comprising a master clock deciding apparatus (305) configured to output a system clock signal (C0); and a slave clock deciding apparatus (301) configured to generate a plurality of clock signals (C0-Cn) by delaying a reference clock signal (GCLK), and to output a clock signal (CLKOUT) selected from the plurality of clock signals having a minimum phase difference from the system clock, wherein the output of the master is inputted into the slave.

With regard to claim 16, the output of the slave is inputted into the master.

Conclusion


6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. For example, Wilcox (US 5,886,557) is cited as of interest because it discloses a redundant clock signal generating circuitry.

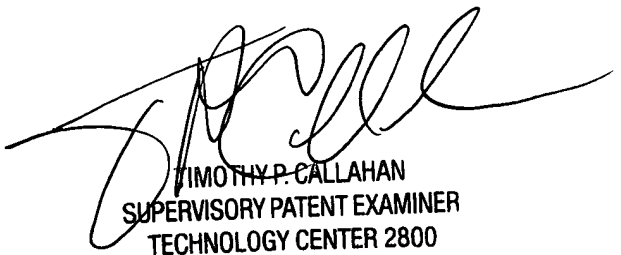
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai L. Nguyen whose telephone number is 571-272-1747 and Right Fax number is 571-273-1747. The examiner can normally be reached on Monday-Thursday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The official fax phone number for the organization where this application or proceeding is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1562.

HLN 
September 14, 2004


TIMOTHY P. CALLAHAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800